

**California Environmental Protection Agency
Department of Toxic Substances Control**



**NON-RCRA HAZARDOUS WASTE FACILITY
POST-CLOSURE PERMIT**

Permit Number: 02-BRK-02

Facility Name:
USS-POSCO Industries
900 Loveridge Road
Pittsburg, CA 94565

Owner Name:
USS-POSCO Industries
900 Loveridge Road
Pittsburg, CA 94565

Operator Name:
USS-POSCO Industries
900 Loveridge Road
Pittsburg, CA 94565

EPA ID No: CAD 009 150 194

Effective Date: November 1, 2002

Expiration Date: October 31, 2012

Pursuant to Section 25200 of the California Health and Safety Code, this Hazardous Waste Facility Post-Closure Permit is hereby issued to USS-POSCO Industries. The issuance of this Permit is subject to the conditions set forth in Attachment A, the Part "A" Application dated May 22, 2001 and the Part "B" Application dated August 12, 2002. Attachment A of this permit consists of nine (9) pages.

[original signed by]

Mohinder S. Sandhu, Chief
Standardized Permits and
Corrective Action Branch
Department of Toxic Substances Control

Issuance Date: [Signed 09/26/02]

ATTACHMENT "A"
USS-POSCO INDUSTRIES
900 LOVERIDGE ROAD, PITTSBURG, CA 94656
NON-RCRA HAZARDOUS WASTE FACILITY POST-CLOSURE PERMIT
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ATTACHMENT "A"
PART I. DEFINITIONS

1. **"DTSC"** as used in this Permit means the California Department of Toxic Substances Control.
2. **"Permittee"** as used in this Permit means the Owner and Operator.
3. **"Cal. Code Regs."** as used in this Permit means the California Code of Regulations.
4. **"CAMU"** as used in this Permit means Corrective Action Management Unit.
5. **"RCRA"** as used in this Permit means Resource Conservation and Recovery Act.
6. Unless explicitly stated otherwise, all references to items in this Permit shall refer only to items occurring within the same part.

PART II. DESCRIPTION OF THE FACILITY AND OWNERSHIP

1. OWNER

The owner of the facility is USS-POSCO Industries (hereafter "owner"), a joint venture (partnership) between United States Steel Corporation (formerly known as USX Corporation) of Pittsburgh, Pennsylvania and POSCO (formerly known as Pohang Iron and Steel Co., Ltd.) of the Republic of Korea.

2. OPERATOR

The operator of the facility is USS-POSCO Industries.

3. LOCATION

The facility is located at 900 Loveridge Road, Pittsburg, Contra Costa County, California. Figure 1-2 of the Permit Application shows the legal boundaries of the facility.

4. DESCRIPTION

The Unit One landfill, a capped and unlined non-RCRA unit, is located at the southern edge of Site L-B within the USS-POSCO facility. Unit One was granted an interim status in 1981 and was certified closed by DTSC on December 28, 1995. Unit One covers about eight acres, rises to a height of 39.5 feet above sea level, and contains approximately 130,800 cubic yards of wastes soils and sludges. Contaminants include metals, oil and grease, and total petroleum hydrocarbons. All wastes in the Unit One landfill are non-RCRA, California hazardous waste.

Creation of the Unit One CAMU will involve temporary removal of part of the cap on the Unit One landfill and placement of non-RCRA, California hazardous waste excavated from on-site Solid Waste Management Units (SWMUs). The Unit One CAMU shall cover approximately 10 acres, rise to a height of 48 feet above sea level, and contain an additional 98,400 cubic yards of waste soils and sludges. The opened cap shall be repaired with a geosynthetic clay liner and soils cover similar to the original cap on Unit One.

Drainage for the Unit One CAMU will be accomplished by natural gravity flow toward the north and west into the Storm Water Retention Basin. Lined culverts on the top deck collect storm water and direct it into pipes which convey it down the sides into a perimeter drainage channel. The drainage channel drains to the northwest into the Storm Water Retention Basin.

Required groundwater monitoring includes sampling of 3 upgradient and 7 downgradient wells. Monitoring frequency and parameters are as specified in Appendix One of this Permit and in the Operation Plan.

5. CAMU REGULATORY HISTORY AND BASIS FOR ISSUANCE OF PERMIT

In February 1993, the United States Environmental Protection Agency (USEPA) issued the final rule for CAMUs under Subtitle C (Federal Register, Volume 58, page 8658). California adopted regulations (Cal. Code Regs., title 22, section 66264.552) equivalent to the federal CAMU rule on June 29, 1995.

These regulations allow placement of remediation/soil materials from on-site areas into a designated on-site CAMU, without complying with treatment standards specified by Land Disposal Restrictions for the waste, and without complying with liner standards specified by Minimum Technology Requirements for the unit receiving waste. The CAMU rule states that a liner system shall be installed and treatment be performed if necessary to protect human health and the environment. DTSC has determined that, for this project, neither a liner system nor treatment of the waste is necessary to protect human health and the environment.

The proposed amendments to the CAMU Rule were published in the Federal Register on August 22, 2000 (Volume 65, Number 163). CAMU applications submitted to the DTSC up to 90 days after this publication date and subsequently determined to be substantially complete are considered to be grandfathered and subject to the original 1993 CAMU Rule. DTSC received a CAMU Designation Request on August 4, 2000 and determined the CAMU Designation Request to be substantially complete on November 16, 2000. The final CAMU amendments were published in the Federal Register on January 22, 2002 (Volume 67, Number 14) and included the grandfathering regulations (40 CFR 264.550 and 551). Therefore the final amendments to the CAMU rule (liner and treatment requirements), effective as of April 22, 2002, do not apply.

6. FACILITY SIZE AND TYPE FOR FEES

The size of the facility is large for the purpose of activity fees associated with the Post-Closure Permit for the Corrective Action Management Unit.

PART III. CONDITIONS

1. PERMIT APPLICATION DOCUMENTS

The approved Post-Closure Permit Application which consists of the Part A Application dated May 22, 2001 and Application for a Part B Permit dated August 12, 2002 are hereafter known as the Operation Plan. The Operation Plan is hereby made a part of this Permit by reference.

2. EFFECT OF PERMIT

- (a) The Permittee shall comply with the provisions of the California Health and Safety Code, and Cal. Code Regs., title 22, division 4.5. Specifically, the Permittee shall comply with all sections of the Cal. Code Regs., division 4.5, title 22, chapter 14, article 14, with the exception of those sections dealing with liners and leachate collection systems. The issuance of this Permit by DTSC does not release the Permittee from any liability or duty imposed by federal or state statutes or regulations or local ordinances, except the obligation to obtain this Permit.
- (b) The Permittee is authorized to construct, monitor, and maintain the post-closure facility in accordance with the conditions of this Permit. Any treatment and storage of hazardous wastes not specifically authorized in this Permit or any other permits issued by DTSC is strictly prohibited.
- (c) Compliance with the terms of this Permit does not constitute a defense to any action brought under any other law governing protection of public health or the environment, including, but not limited to, one brought for any imminent and substantial endangerment to human health or the environment.
- (d) DTSC's issuance of this Permit does not prevent DTSC from adopting or amending regulations that impose additional or more stringent requirements than those in existence at the time this Permit is issued and does not prevent the enforcement of these requirements against the Permittee.
- (e) Failure to comply with any term or condition set forth in the Permit in the time or manner specified herein will subject the Permittee to possible enforcement action including, but not limited to, penalties pursuant to Health and Safety Code section 25187.
- (f) In addition, failure to submit any information required in connection with the Permit, or falsification and/or misrepresentation of any submitted information, is grounds for revocation of this Permit (Cal. Code Regs., title

22, section 66270.43).

- (g) In case of conflicts between the Operation Plan and the Permit, the Permit conditions take precedence.

(h) This Permit includes and incorporates by reference any conditions of waste discharge requirements issued by the State Water Resources Control Board or any of the California Regional Water Quality Control Boards and any conditions imposed pursuant to section 13227 of the Water Code.

3. COMPLIANCE WITH CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

A Mitigated Negative Declaration for this project has been prepared in accordance with the requirements of Public Resources Code section 21000 et seq. and the CEQA Guidelines, Cal. Code Regs., title 14, section 15070 et seq.

4. ENVIRONMENTAL MONITORING

- a) The permittee is required to continue to perform groundwater monitoring in accordance with the requirements of Cal. Code Regs., title 22, division 4.5, chapter 14, article 6 and as specified in the Operation Plan. Appendix One of this Permit lists the major components of the groundwater monitoring system, and monitoring parameters and frequency. Monitoring frequency is as follows: groundwater elevations on a quarterly basis; laboratory parameters and other field parameters semi annually for the first two years of the Unit I CAMU post-closure period. After the second year, the frequency would be changed to semi-annually for groundwater elevations and annual monitoring for all laboratory parameters and other field parameters if evaluation of the data justifies a longer time period between monitoring events (DTSC approval required.) Should the list of monitoring parameters be reduced in the future (DTSC approval required), the original list of monitoring parameters would be analyzed every five years.
- b) A visual inspection shall be conducted, at a minimum, on a monthly basis. Additional inspections shall be performed after 25 year 24 hour rainstorms, and after a significant earthquake (see Part 4(d)), or other events which may cause substantial damage to the Unit One CAMU. On a yearly basis, the Unit One CAMU shall have a comprehensive inspection as detailed in the Operation Plan. An independent engineer registered in California shall approve the evaluation. All inspections shall be conducted in accordance with Section 6.1, of the Operation Plan.
- c) Pursuant to Cal. Code Regs., title 22, section 66264.117(b)(1) the post-closure care period shall extend 30 years from the effective date of the permit. This period may be extended or shortened as provided in Cal. Code

Regs., title 22, section 66264.117 (b) (2)(A) and (B).

- d) A post-earthquake visual inspection shall be required according to the following table. The inspection must take place within three days of the earthquake. An inspection will be triggered when the earthquake is of "M" magnitude on the Richter scale and the earthquake epicenter is within a distance of "D" miles from the facility.

M	D		M	D		M	D		M	D
<4	see note		5.1	22		6.3	42		7.5	69
4.0	10		5.2	23		6.4	43		7.6	71
4.1	11		5.3	25		6.5	45		7.7	73
4.2	12		5.4	27		6.6	47		7.8	76
4.3	13		5.5	28		6.7	50		7.9	78
4.4	14		5.6	30		6.8	52		8.0	80
4.5	15		5.7	32		6.9	54		8.1	83
4.6	16		5.8	33		7.0	57		8.2	85
4.7	17		5.9	35		7.1	59		8.3	87
4.8	18		6.0	37		7.2	61		8.4	90
4.9	19		6.1	38		7.3	64		8.5	92
5.0	20		6.2	40		7.4	66			

note: For earthquakes less than 4.0 on the Richter scale, if significant damage has been reported within a 10 mile radius from the facility, a post-earthquake inspection is required.

- e) The Permittee shall provide written notice to DTSC of all construction and monitoring activities authorized by this Permit at least 15 calendar days before initiating such activities. The notice shall be provided to the following persons:

Branch Chief
Standardized Permits and Corrective Action Branch
700 Heinz Avenue, Suite 200
Berkeley, CA 94710

PART IV - CORRECTIVE ACTION

The Permittee shall conduct corrective action at the Facility pursuant to Health and Safety Code section 25200.10. The Permittee is conducting corrective action pursuant to a Corrective Action Consent Agreement entered into between DTSC and the Permittee dated June 1998. A revised Consent Agreement shall be entered into before this Permit becomes effective to include the approved corrective action remedies at the Facility as described in the Notice of Final Decision and Final Statement of Basis, both dated September 26, 2002.

Until such time as the deed restrictions mandated by the approved corrective action remedies are recorded and DTSC notifies USS-POSCO that the remedies have been adequately completed, the subject properties shall not be sold. Any lessee or renter of the subject properties shall be given a copy of the Notice of Final Decision and Final Statement of Basis so as to be aware of the restrictions on the properties and the contaminants of concern contained upon them. During this period, no activities shall be conducted upon, or improvements made, on the properties addressed in the Final Statement of Basis, or on any properties addressed in the Consent Agreement for which further investigation or remedial action is required, which is intended for human residence, schools, day care centers, human medical care facilities, or cultivation of food. Construction activities involving soil movement will comply with all current applicable laws and regulations and mitigation measures identified in the permit application, especially those designed to limit exposure to contaminants by construction workers and adjacent residents.

Appendix One

Unit One CAMU Groundwater Monitoring Wells

Construction Summary, Monitoring Parameters and Frequency

Number	Hydrogeologic Status	Monitoring Interval	Dia-meter inches	Total Depth (ft bgs)	Screen Interval (ft bgs)
M-0IDR	Upgradient	Deep	4	119	108 to 118
M-01F	Upgradient	Intermediate	2	56	45 to 55
M-01GR	Upgradient	Shallow	2	19	8 to 18
M-02	Downgradient	Shallow	2	19	9 to 19
M-03	Downgradient	Shallow	2	18	8 to 18
M-04	Downgradient	Intermediate	2	53	43 to 53
M-04D	Downgradient	Deep	4	118	108 to 118
M-04S	Downgradient	Shallow	2	17	6 to 16
M-05	Downgradient	Shallow	2	20	10 to 20
M-10	Downgradient	Shallow	2	19.5	9.5 to 19.5

Notes: bgs = below ground surface

(a) Monitoring Intervals: The shallow and intermediate intervals monitor the upper groundwater-bearing zone and the deep interval monitors the lower groundwater-bearing zone.

(b) Monitoring Parameters

Field Parameters

Groundwater elevation; pH; Specific Conductance; Temperature; Turbidity

Laboratory Parameters

Metals (arsenic, chromium, copper, lead, manganese, nickel, zinc) (EPA Method 6000 series); TDS (EPA Method 160.1); TOC (EPA Method 415.1); TPH-d and TPH-g (EPA Method 8015M); O&G (EPA Method 413.2); VOCs (EPA Method 8260)

(c) Monitoring Frequency:

Groundwater elevations on a quarterly basis; laboratory parameters and other field parameters semi-annually for the first two years of the Unit I CAMU post-closure period. After the second year, the frequency would be changed to semi-annually for groundwater elevations and annual monitoring for all laboratory parameters and other field parameters if evaluation of the data justifies a longer time period between monitoring events (DTSC approval required.) Should the list of monitoring parameters be reduced in the future (DTSC approval required), the original list of monitoring parameters would be analyzed every five years.

Appendix #2

